Customer No. 01933

## Listing of Claims:

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Claims 1-5 (Canceled).

- 6. (Currently Amended) A laser scanning microscope comprising:
- a first optical scanning system which scans a first laser light for observing a sample on the sample;
- a first light branch device which branches separates a light from the sample from an optical path of the first laser light;
- a at least one photodetector which detects the light from the sample separated by the first light branch device;
- a second optical scanning system which irradiates a specific portion on the sample with a second laser light for stimulating or operating the sample; and
  - a wavelength selection device which is disposed between the first light branch device and the photodetector and which includes has a first function of transmitting a desired observation light and a second function of limiting transmission of the second laser light.
  - 7. (Currently Amended) The laser scanning microscope according to claim 6, wherein the wavelength selection device is comprises an interference filter.

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- 8 . (Currently Amended) The laser scanning microscope according to claim 6, wherein a transmittance of the second laser light of the wavelength selection device is not more than 0.01% or less.
- (Currently Amended) The laser scanning microscope according to claim 8, wherein the wavelength selection device comprises:
- a at least one first interference filter which includes performs the first function; and
  - a at least one second interference filter which includes performs the second function.
  - (Currently Amended) The laser scanning microscope according to claim 8, wherein the wavelength selection device is comprises an interference filter comprising:
  - a first interference coating, which fulfills performs the first function, on one surface of a substrate; and
  - a second interference coating, which fulfills performs the second function, on the other another surface of the substrate.
  - 11. (Original) The laser scanning microscope according to claim 8, wherein the second laser light is an ultraviolet or infrared light.

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- 12. (Currently Amended) The laser scanning microscope according to claim 7 6, wherein the wavelength selection device comprises:
- a at least one first interference filter which includes

  performs the first function; and
  - at least one second interference filter which includes performs the second function.
  - 13. (Currently Amended) The laser scanning microscope according to claim 12, wherein:

the at least one photodetector comprises a plurality of photodetectors and the at least one first interference filter comprises a plurality of first interference filters; are disposed,

a second light branch device which splits the light from the sample toward these the photodetectors is disposed between the first light branch device and photodetector, the photodetectors;

the second interference filter is disposed between the first and second light branch devices; [[,]] and

the first interference <u>filter is</u> <u>filters are</u> disposed between the respective photodetectors and the second light branch device.

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- 14. (Original) The laser scanning microscope according to claim 12, further comprising:
- a wavelength change section which changes a wavelength of the second laser light; and
- a filter change section which changes the second interference filter in accordance with the wavelength of the second laser light.
  - 15. (Currently Amended) The laser scanning microscope according to claim 7, wherein the wavelength selection device interference filter comprises:
  - a first interference coating which includes performs the first function; and
    - a second interference coating which includes performs the second function.
    - 16. (Original) The laser scanning microscope according to claim 6, wherein the second laser light is an ultraviolet or infrared light.
    - 17. (Currently Amended) The laser scanning microscope according to claim 16, wherein the wavelength selection device comprises:

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- at least one first interference filter which includes performs the first function; and
- a <u>at least one</u> second interference filter which includes performs the second function.
- 18. (Currently Amended) The laser scanning microscope according to claim 17, wherein:

the at least one photodetector comprises a plurality of photodetectors and the at least one first interference filter comprises a plurality of first interference filters; are disposed,

a second light branch device which splits the light from the sample toward these the photodetectors is disposed between the first light branch device and photodetector, the photodetectors;

the second interference filter is disposed between the first and second light branch devices; [[,]] and

the first interference <u>filter is filters are</u> disposed between the respective photodetectors and the second light branch device.

19. (Original) The laser scanning microscope according to claim 6, wherein the desired observation light is a fluorescence excited by the first laser light.